

SUBSTITUTE ABSTRACT

A body (1), feeding a group of enlarged pipes (2) in which straight pipes (6) slide so as to control the discharge of particles. At the exit of these tubes, the particles are propelled towards the periphery by gas jets that originate from perforated tubes (4). A rotating set of plates (3) whose periphery is fitted with brushes (30) having bristles of various dimensions, scatters the particles in such a way so as to distribute them uniformly according to a horizontal plane. A correcting device (9, 11, 12, 13, 14 and 16) that gets its feed of particles from the top of the device enables to set right any mal-distribution by directing an additional partial flow of particles towards an area where the height of the bed is low or uneven. Such a machine can also be used for the loading of silos or of catalytic reactors.